

OriGene Technologies, Inc.

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Product datasheet for TA503309

PTP1B (PTPN1) Mouse Monoclonal Antibody [Clone ID: OTI1C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C5
Applications:	IHC, WB
Recommend Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PTPN1(NP_002818) produced in HEK293T cell.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.87 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	49.8 kDa
Gene Name:	protein tyrosine phosphatase non-receptor type 1
Database Link:	<u>NP_002818 Entrez Gene 5770 Human</u>
Background:	The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor

kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth

control, and cell response to interferon stimulation. [provided by RefSeq]



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QRIGENE PTP1B (PTPN1) Mouse Monoclonal Antibody [Clone ID: OTI1C5] – TA503309

Synonyms:

Protein Families:

Protein Pathways:

Druggable Genome, Phosphatase, Transmembrane Adherens junction, Insulin signaling pathway

Product images:



PTP1B



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTPN1 ([RC204902], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTPN1. Positive lysates [LY419087] (100ug) and [LC419087] (20ug) can be purchased separately from OriGene.

Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and PTPN1-Knockout Hela cells (KO, Cat# [LC810193]) were separated by SDS-PAGE and immunoblotted with anti-PTPN1 monoclonal antibody TA503309. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).

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Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-PTPN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503309)

Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-PTPN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503309)

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